

Figure 1

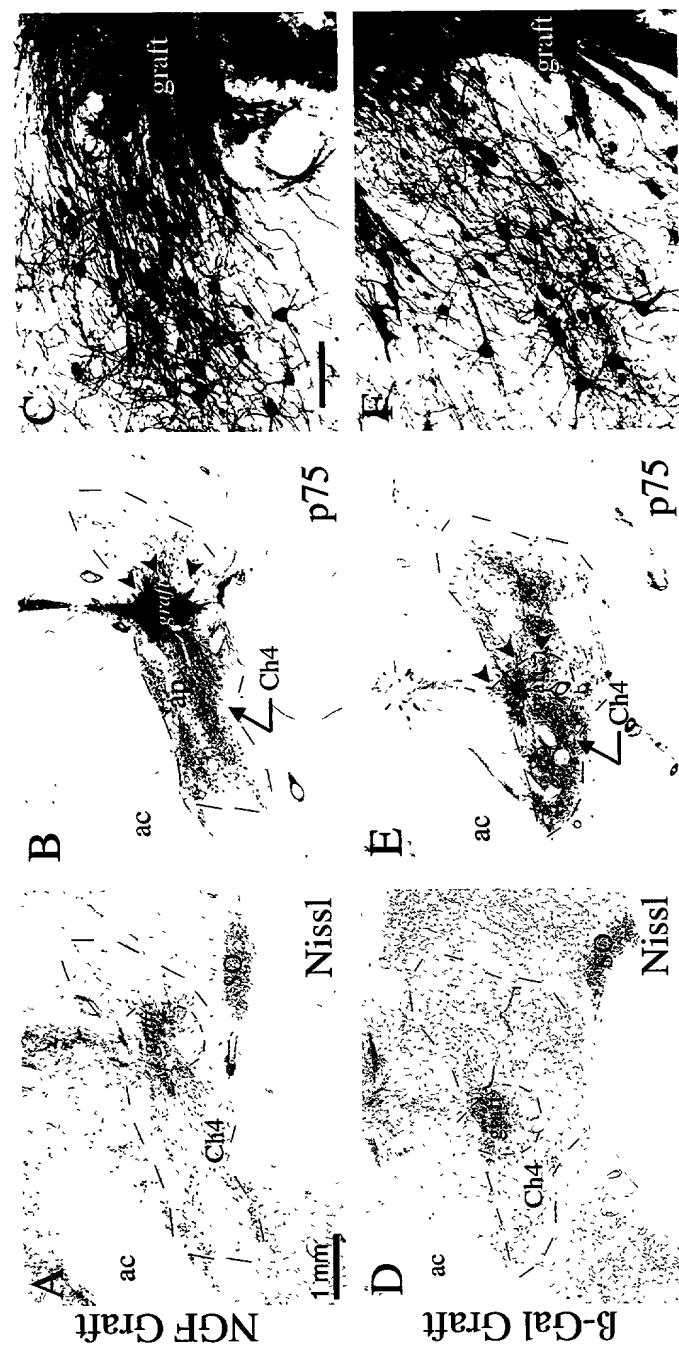


Figure 2

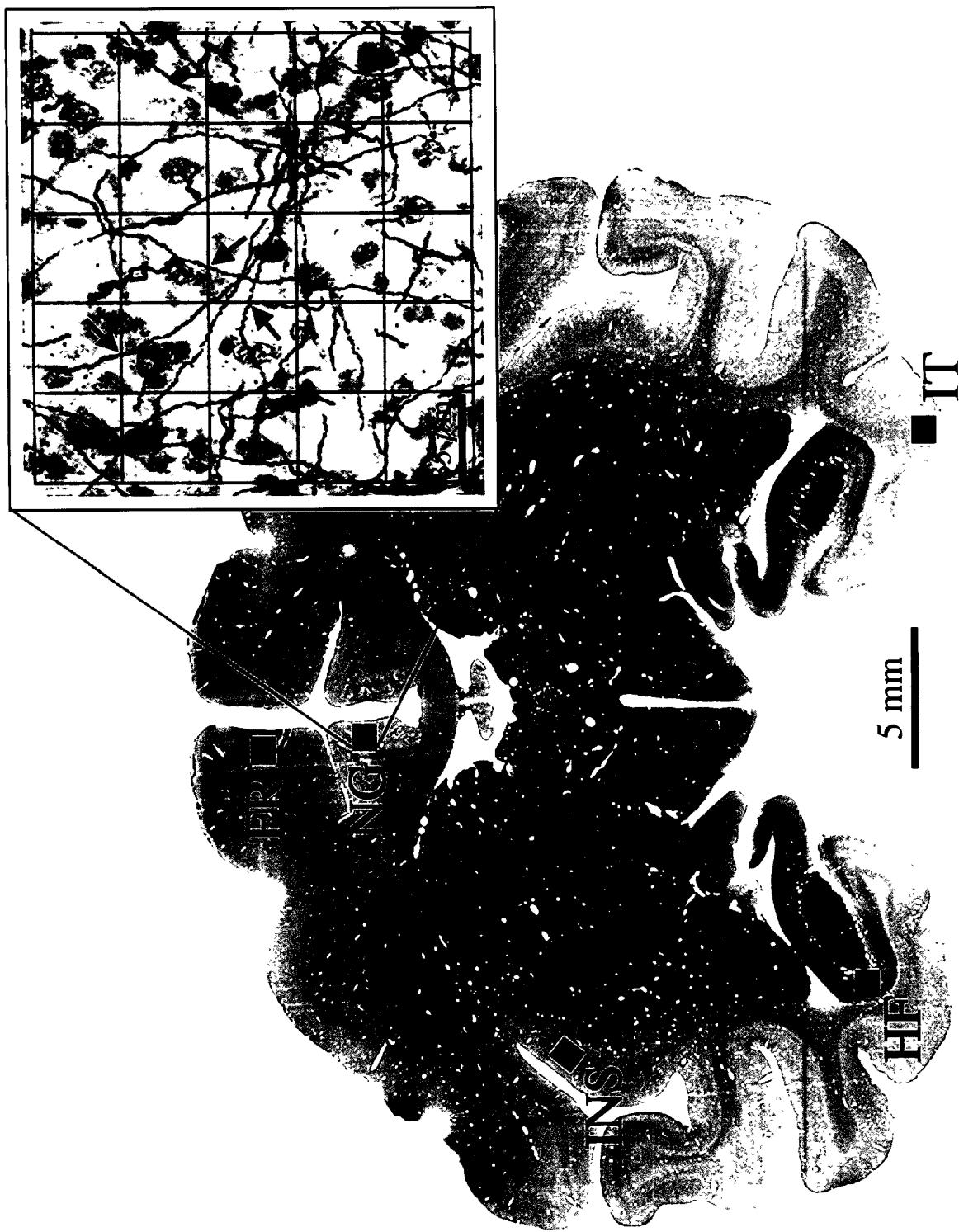


Figure 3

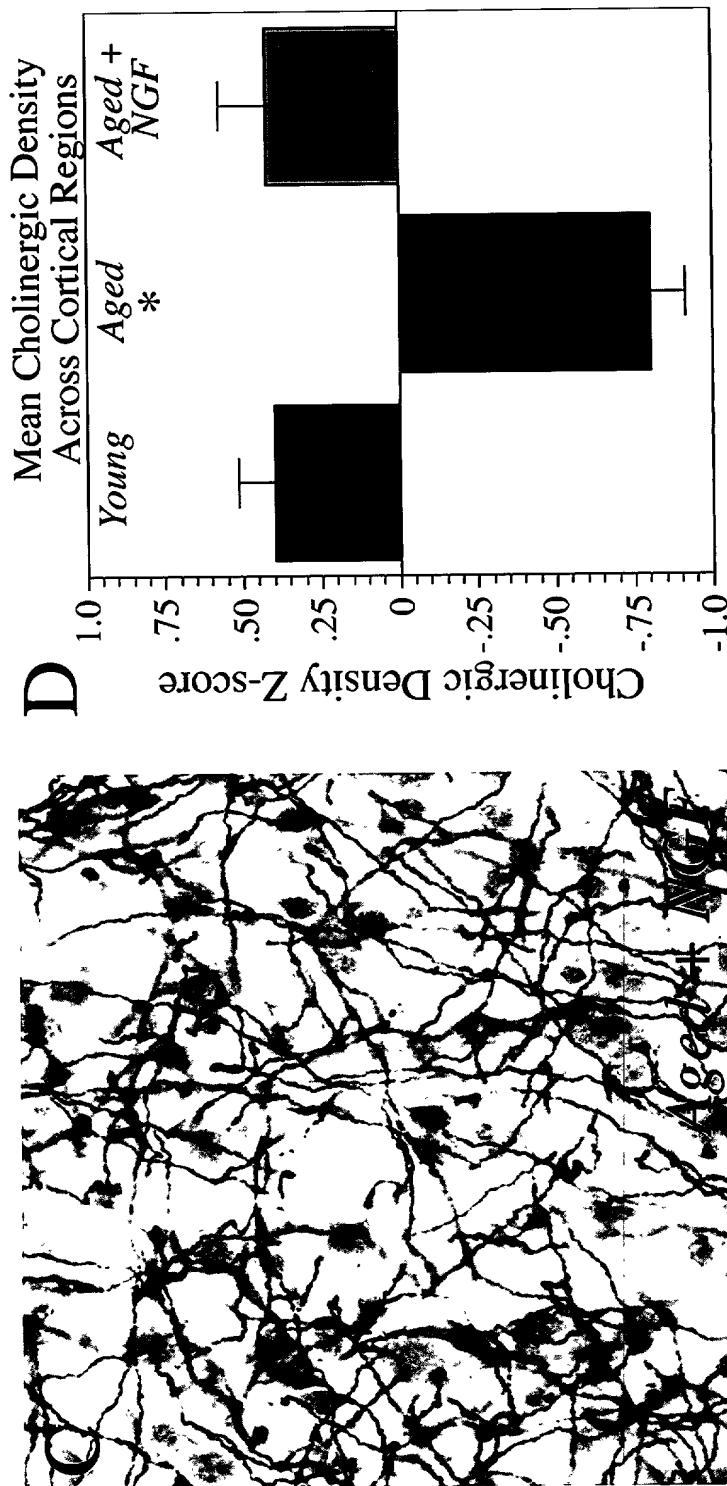
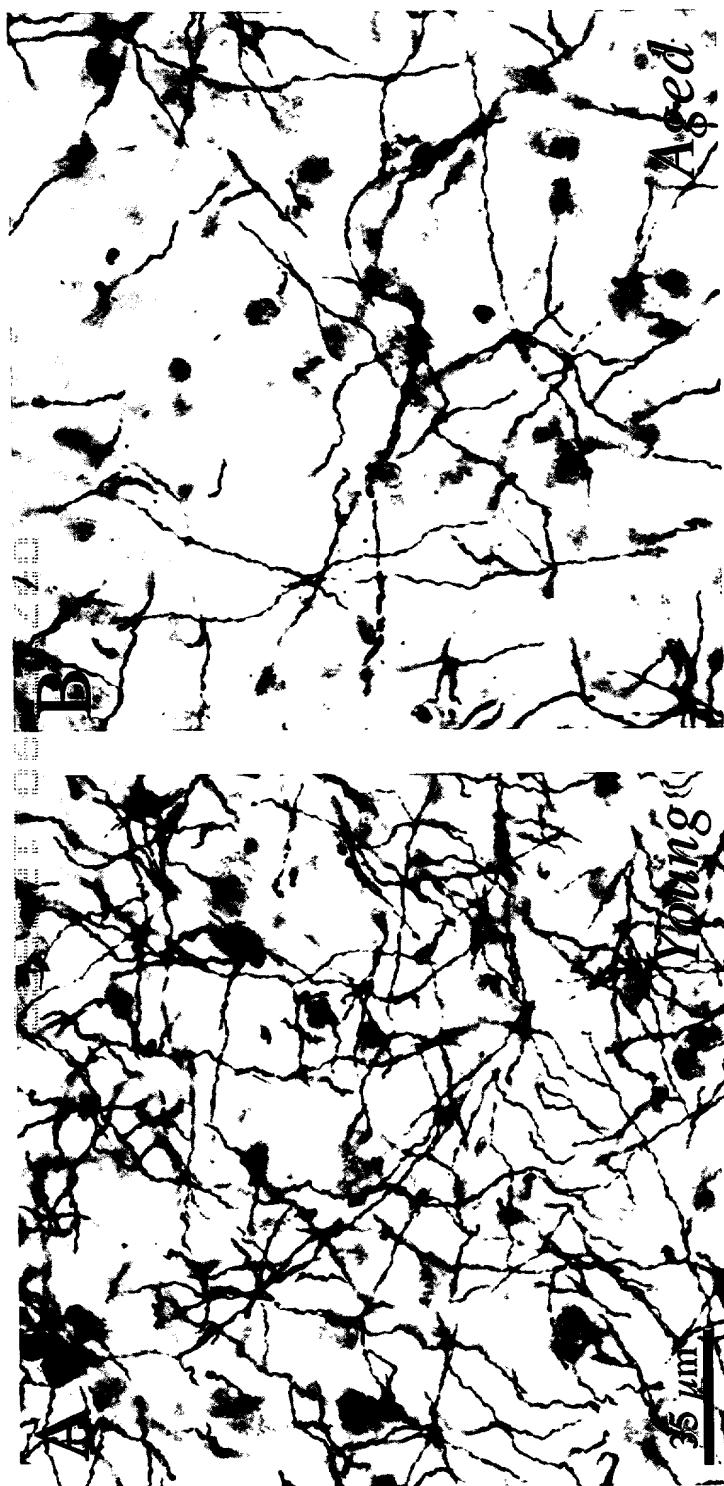
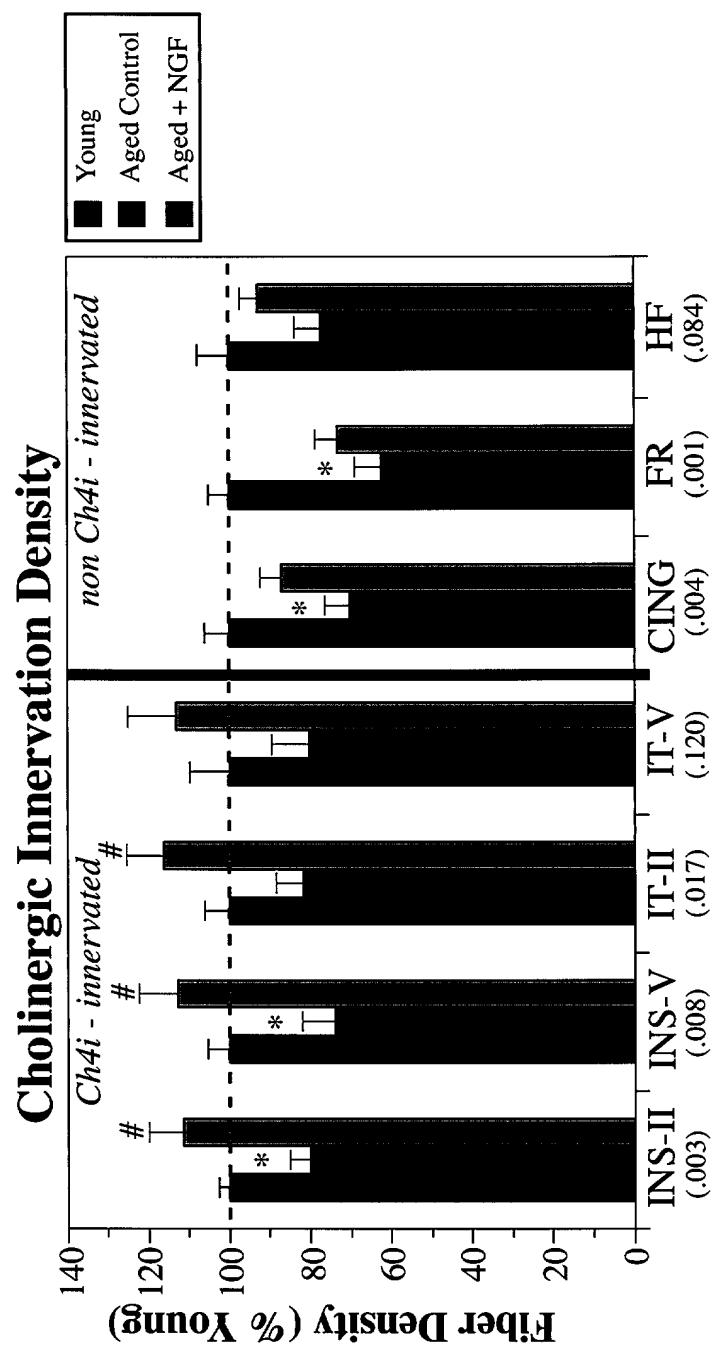


Figure 4



LOCUS E07844 3821 bp DNA PAT 26-Nov-1996
 DEFINITION Genomic DNA of human nerve growth factor2 (NGF-2/NT-3).
 ACCESSION E07844
 NID g2175977
 KEYWORDS JP 1994189770-A/4.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 3821)
 AUTHORS Asae,S., Reiko,S. and Koichi,I. .
 TITLE EXPRESSION PROMOTER AND ITS USE
 JOURNAL Patent: JP 1994189770-A 4 12-JUL-1994;
 TAKEDA CHEM IND LTD
 COMMENT OS Homo sapiens (human)
 PN JP 1994189770-A/4
 PD 12-JUL-1994
 PF 31-MAY-1993 JP 1993128601
 PR 01-JUN-1992 JP 92P 140706, 27-OCT-1992 JP 92P
 288717 PI
 SHINTANI ASAE, SASADA REIKO, IGARASHI KOICHI
 PC C12N15/16,C12N15/63;
 CC strandedness: Double;
 CC topology: Linear;
 CC Feature is identified by similarity;
 FH Key Location/Qualifiers
 FH
 FT source 1..3821
 FT /organism='Homo sapiens'
 FT CDS 3276..3821
 FT /product='human NGF-2(nerve growth
 factor2)'.
 FEATURES Location/Qualifiers
 source 1..3821
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 BASE COUNT 880 a 1041 c 1031 g 869 t
 ORIGIN
 1 gagctcaaac atagggagat aagtgtgtt ttcacaagat aaaggcaaaa
 ttcaatccca
 61 cgttgccgtt ttgtttctgt tcagtgttcc aaccacagag tggtgctatt
 gcaaaagata
 121 aggtaaacca gaaggcacgc tctggaaatt tgcttttagga gagagttta
 aagggggttt
 181 tcaaaaacaa gatctgattc ctgctctcag aaatcacttc caggagtcag
 ggccttactc
 241 tcagatgcag cagggagaag aagaaagttc agcaacctaa aaatacagtc
 gacagatggg
 301 cagccaaagt catggccacg aagtcaactt ggagaggagc acctacctag
 tgaatcctaa
 361 aagatctcat cctggatgct tccttaacca ggcctatgta cagggcacaa
 gctcgagcc
 421 agcttacttt ccagtcctga tcttgcttt tgctatccat accaatggta
 tttctataga
 481 aaagaaaaat ctctattttag aaacacggat ttacttagaa gtcacaatat
 tcttagttaa
 541 aaatggctct acatagtaga gaatgatctt tttattctgt cttcttaaaa
 atacaccttt
 601 ctaattcttt ttttcttccc accttcttca ttcagcacct tgccactccc
 ttggaaagcca
 661 caacagcgag ctgggggtc agtcccttagt ctttagaggaa agaaatcttt

Figure 5
(Pg. 1 of 3)

aggtctgaag
 721 tctaa~~c~~ ~~a~~ aacagtaaaag gaaaaggcag ttg~~s~~~~t~~ ggtgc tcaaggtaga
 ctgtctgaaa
 781 gaggtcttct actcagaaaa gggctaaggc tctccctttg ggaaaccaat
 ccttctgaga
 841 aaaagtgcac ttccaccct ctgctcctgt ctgggtctct ccctcttc
 ccctcttc
 901 cttagtccc cctccccctct ctccacaaag acacagcaca tatttggcaa
 gattaaggta
 961 tcacctctca tattacaagg cctgttgatt gcaagcaaag acagacccac
 cagcttagga
 1021 caaaacccct tggagttgga aataagacaa actctggat ccccgaaagt
 cccggaaaa
 1081 tgacgcggcc agccagtgc aggcatctgc agaacaatc caagtcctaa
 acgcactgct
 1141 tgctgcctt tcttctcctt ccttcttctt gattttcaa gtttgtttgc
 ccccccttccc
 1201 ctccctccctc cagactgccca gggacctggg agctgcctgc agatcagccc
 gcacatgtat
 1261 ttaacccctt ccctgctgc gcaggagcca accaccttctt tccttgcatt
 cttaggttc
 1321 ccagaggacc tggagcttga gaaaagaact ctgccagtgg atctgaaact
 ggggctgaa
 1381 tccctccctt gaccagggcg agaagctgga ggaggggggc aagtgcggga
 agtggggggag
 1441 ggcagggagg cgggcccagat gagagggaga aaagcagaac ccgacagagc
 acgccccatc
 1501 caaaccttca tggtgctgtg tggctgggtg gagggAACGA ctcggcagcc
 tcttctggcc
 1561 ctgaggaaga cgtcgatatt ttggcacgag gggagccact gaaggactac
 cctacccttg
 1621 cgagggaccg caggaggtga cgccccctggg cctcggtggg cgcttctggc
 gtttttcgtat
 1681 gtggcaaccc ccatcagcca ggataatgtat gaggcaggta caatctatct
 agtacgcgc
 1741 ccccagactc ccccccctt tcccacctcc ccatccaacc ccccagctac
 tctctgcggc
 1801 cggttggtcc tgaactggtg ggtgcagttc cgatgtttaa ccaaattctc
 aagcaatttc
 1861 aaggtat~~tt~~ gatttttga acctggggccc taaccgaaac gcggAACGGC
 ttgcttattaa
 1921 gacacctcga acgacagcgc agggagggaaa cgggataactc gctgcccttc
 ccagtgcgc
 1981 gtgagtcaaa aggtcctggc aggagatgtat gtgaggagcg gctgaagtgg
 cagggagca
 2041 gggatgaggg gcttggagcg gaggtccacc acgcaaggac tcgggaagcg
 ggcaagtggg
 2101 caaaactctg cttccggct ctcgatttct cgttgcattcac taagtggtat
 ttttccccct
 2161 tctctcgatg gcaaattggc gaaatcaaga tgacttaact tggtaaattt
 agagagaacg
 2221 gctcggagca agtgaggctt aacgggcagc taaaattatc tccaaataag
 agat~~ttt~~gac
 2281 cccctccccc tattccctcc tcgaatgtat ccaccgggtgg ggaagtggc
 gtcattactt
 2341 tcggggcgcc acgacagg~~t~~ ttgtttgtgc tcgccttcc tgcttctcgc
 gctgtccccg
 2401 cgtgcagact ggtgggtgct gggcgagtga ttagctgcag ggccccatcc
 tagtttggaa
 2461 ggaagggggtt tagaagttgg aggtgggtg aaatgggagg ctgcgcattca
 tctccctctc
 2521 cttccacac tcaagctccc gcaaacacgc gcgccacac acagccctc
 ccttagtccc
 2581 cggaccaccc gccccacgc ccctctacct tgaccccttgaccggca

Figure 5
(Pg. 2 of 3)

```

cacagcgtcc
  2641 tgggt$ ,gg tccccgggag cggggagttc gcc$ ,ggagc gattgtcctt
ggcggtgttc
  2701 gtgctgtggg gtggggggag gagtggcggg tggcttggt aggggggtggg
gagagatctg
  2761 gagctggaag ggtctaaggt ttggaggagg agtttacccc tcagacctga
tcctcctgac
  2821 caaaaaggca ggaaaaggcc ctgatgcctt gtaaagaaaa tcttcaaaga
aaaaagatca
  2881 aaaagaaaaa tttcaagaaa aagaaccact aagaaaggct gaagacacta
acatgtAAC
  2941 tgTTACATA cattAACGT ttcgttttt cctggatctc taaaaggaa
ctcaagggtg
  3001 ggggttactg aagaatacta cagatttgg aGTTTTGTT GCTGTTGTTG
tttggTTGG
  3061 ttttggTTTTT caagaggggc caggagaaat gaccCCTTCC CCGCCACGGG
tcccgaagtg
  3121 agggcggggg gggggctctg gggcgcgggc gcgcgcggc cggcgcgggc
cggcggggga
  3181 gggcggcgcg gcgcggagg ggttaaggcg ctgagcgcgg agccatctgg
ccgggTTGGC
  3241 tgTTATAAC CGCGCAGATT CTGTTACGG GACTCAGAGT TGAAGCTCCT
CTCCCTTCG
  3301 aacacgtccg cgCACCGCCC CGCGACGCAG CCCGGCGCAA CTACTTCTT
CTCTCTCCTT
  3361 tctttcttcc tctcctttt cccctgctgg gtagtggctg cggcggggtg
ggggagactt
  3421 tgaatgaccg agctcgctc caccttctc ttcatgtcga cgtccctgg
aacggccaca
  3481 cggatGCCAT ggttactttt gccacggtaa ggggaggcgg cgggcacctt
gggtggcag
  3541 gtttgggat ggggtccac gtggggaggg atttccagt ggactggc
ggggggcccc
  3601 agatccgcat cccgccccac ccccatcgcg ccgcgcacac tcactttccc
ggcttgtgt
  3661 cttccccaaa gtttgcgtc ggatctgctc aggccgaagc gcaaccgcag
ccaccccgct
  3721 acacacacac acacacacac acacacacac acacacacac acagacacgg
acacccTTCT
  3781 ccaccccttc ccctttgtc cctcggtgc ccaagaagct t
//
```

```

</FORM><FORM METHOD=POST ACTION=/htbin-post/Entrez/query?db=n_w><INPUT
TYPE=hidden NAME=form VALUE=6><INPUT TYPE=hidden NAME=db
VALUE=n><INPUT TYPE=hidden NAME=dopt VALUE=q><INPUT TYPE=hidden
NAME=dispmax VALUE=1><INPUT TYPE=hidden NAME=uidstring
VALUE="2175977"><INPUT TYPE=submit VALUE="Save"> the above report in <SELECT
NAME="save"><OPTION>Macintosh<OPTION>PC<OPTION>UNIX</SELECT><SELECT
NAME="savehow"><OPTION>Text<OPTION>HTML<OPTION>MIME</SELECT>
format </FORM>
```

Figure 5
(Pg. 3 of 3)

LOCUS HSBNGF 1047 bp RNA PRI 12 P-1993
 DEFINITION Human mRNA for beta nerve growth factor.
 ACCESSION X52599
 NID g29476
 KEYWORDS nerve growth factor.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
 Vertebrata; Eutheria; Primates; Catarrhini; Hominidae;
 Homo.
 REFERENCE 1 (bases 1 to 1047)
 AUTHORS Borsani,G.
 TITLE Direct Submission
 JOURNAL Submitted (11-APR-1990) Borsani G., Instituto
 Sieroterapico
 Milanese 'Sewafino Belfanti', Via Darwin 22, 20143
 Milano, Italy
 REFERENCE 2 (bases 1 to 1047)
 AUTHORS Borsani,G., Pizzuti,A., Rugarli,E.I., Falini,A.,
 Silani,V.,
 Sidoli,A., Scarlato,G. and Baralle,F.E.
 TITLE cDNA sequence of human beta-NGF
 JOURNAL Nucleic Acids Res. 18 (13), 4020 (1990)
 MEDLINE 90326556
 FEATURES Location/Qualifiers
 source 1..1047
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /dev_stage="15 weeks gestation"
 /tissue_type="brain"
 /map="1p22.1-1p21"
 misc_feature 33..34
 /note="exon 1/2 splice junction"
 misc_feature 157..158
 /note="exon 2/3 splice junction"
 CDS 170..895
 /note="beta nerve growth factor (AA 1-241)"
 /codon_start=1
 /db_xref="PID:g29477"
 /db_xref="SWISS-PROT:P01138"

 /translation="MSMLFYTLITAFILIGIQAEPHSESNVPA
 GTIPQVHWTKLQHSL
 DTALRRARSAPAAAIAARVAGQTRNITVDPRLFKRRLRSPRVL
 FSTQPPREAADTQD
 LDFEVGGAAPFNTHR SKRSSSHPIFHRGEFSVCD
 SVWVGDKTTATDIKGKEVMVL
 GEVNINNSVKQYFFETKCRDPNPVDSGCRGIDS
 KHWNSYCTTHTFVKALTMDGKQA
 AWRFIRIDTACVCVLSRKAVRRA"
 misc_feature 1031..1035
 /note="polyA signal"
 polyA_site 1047
 /note="polyA site"
 BASE COUNT 244 a 292 c 278 g 233 t
 ORIGIN
 1 agagagcgct gggagccgga ggggagcgca gcgagtttg gccagtggtc
 gtgcagtcca
 61 aggggctgga tggcatgctg gacccaagct cagctcagcg tccggaccca
 ataacagttt
 121 taccaaggga gcagcttct atcctggcca cactgaggtg catagcgtaa
 tgtccatgtt
 181 gttctacact ctgatcacag cttttctgat cggcatacag gcggaaaccac
 actcagagag

Figure 6
(Pg. 1 of 2)

241 caatgt ct gcaggacaca ccatccccca agt actgg actaaacttc
agcattccct
301 tgacactgcc ctgcgcagag cccgcagcgc cccggcagcg gcgatagctg
cacgcgtggc
361 ggggcagacc cgcaacatta ctgtggaccc caggctgttt aaaaagcggc
gactccgttc
421 accccgtgtg ctgttagca cccagcctcc ccgtgaagct gcagacactc
aggatctgga
481 cttcgaggc ggtggtgctg cccccttcaa caggactcac aggagcaagc
ggtcatcatc
541 ccatcccatc ttccacaggg gcbaattctc ggtgtgtgac agtgtcagcg
tgtgggttgg
601 ggataagacc accgcccacag acatcaaggg caaggaggtg atgggtttgg
gagaggtgaa
661 cattaacaac agtgtattca aacagtactt tttttagacc aagtgccggg
acccaaatcc
721 cgttgcacgc gggtgccggg gcattgactc aaagcactgg aactcatatt
gtaccacgc
781 tcacaccttt gtcaaggcgc tgaccatgga tggcaagcag gctgcctggc
ggtttatccg
841 gatagatacg gcctgtgtgt gtgtgctcag caggaaggct gtgagaagag
cctgacctgc
901 cgacacgctc cctccccctg ccccttctac actctcctgg gcccctccct
acctcaacct
961 gtaaattatt taaaattata aggactgcat ggtaatttat agtttataca
gttttaaaga
1021 atcattattt attaaatttt tggaaagc
//

```
</FORM><FORM METHOD=POST ACTION=/htbin-post/Entrez/query?db=n_w><INPUT  
TYPE=hidden NAME=form VALUE=6><INPUT TYPE=hidden NAME=db  
VALUE=n><INPUT TYPE=hidden NAME=dopt VALUE=o><INPUT TYPE=hidden  
NAME=dispmax VALUE=1><INPUT TYPE=hidden NAME=uidstring  
VALUE="29476"><INPUT TYPE=submit VALUE="Save"> the above report in <SELECT  
NAME="save"><OPTION>Macintosh<OPTION>PC<OPTION>UNIX</SELECT><SELECT  
NAME="savehow"><OPTION>Text<OPTION>HTML<OPTION>MIME</SELECT>  
format.<FORM>
```

Figure 6
(Pg. 2 of 2)